International Space Station

How to Get New Research Onto ISS

◄ A 5-Phase Template ►

ISS Research Integration Office
NASA/Johnson Space Center
March 2012

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Summary

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Funding Sources

Points of Contact

PHASE 2: STRATEGIC PLANNING

PHASE 3: TACTICAL PLANNING

PHASE 4: OPERATIONS

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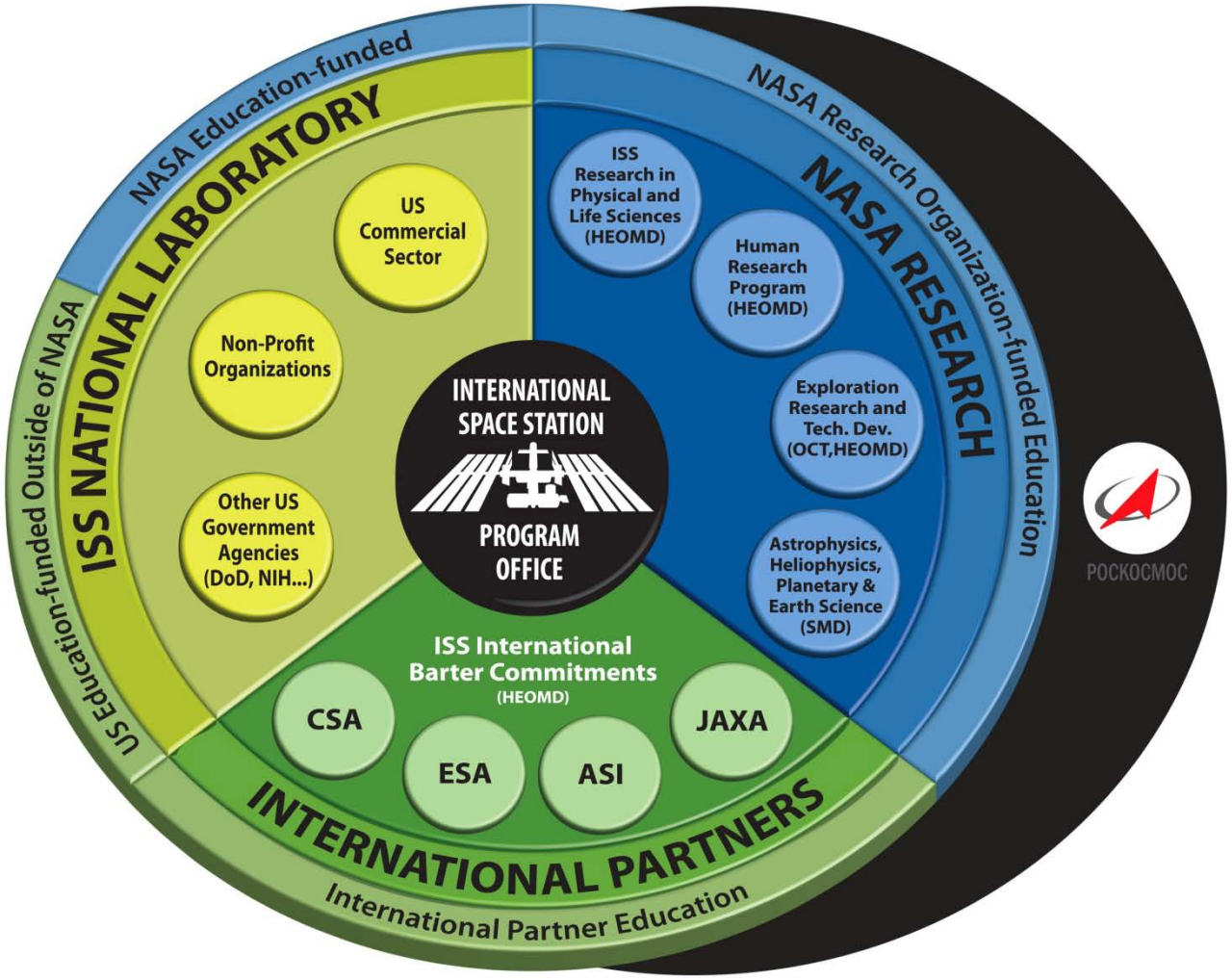
PHASE 1: SPONSORSHIP
Funding Sources



(a) NASA Research

Grant opportunities and information in NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES) at *http://nspires.nasaprs.com/external/*

(b) National Laboratory Research / The Center for the Advancement of Space in Science (CASIS)

The 2005 NASA Authorization Act designated the U.S segment of the space station as a national laboratory, enabling access by other Federal agencies, non-profits, and the private sector. Opportunities and information in CASIS' website at *http://www.iss-casis.org/*

(c) Educational Activities

Both NASA Education and CASIS offer education opportunities and information at NASA: *http://www.nasa.gov/mission_pages/station/research/research_teacher.html* and at CASIS: *http://www.iss-casis.org/research.php*

(d) International Partner Research

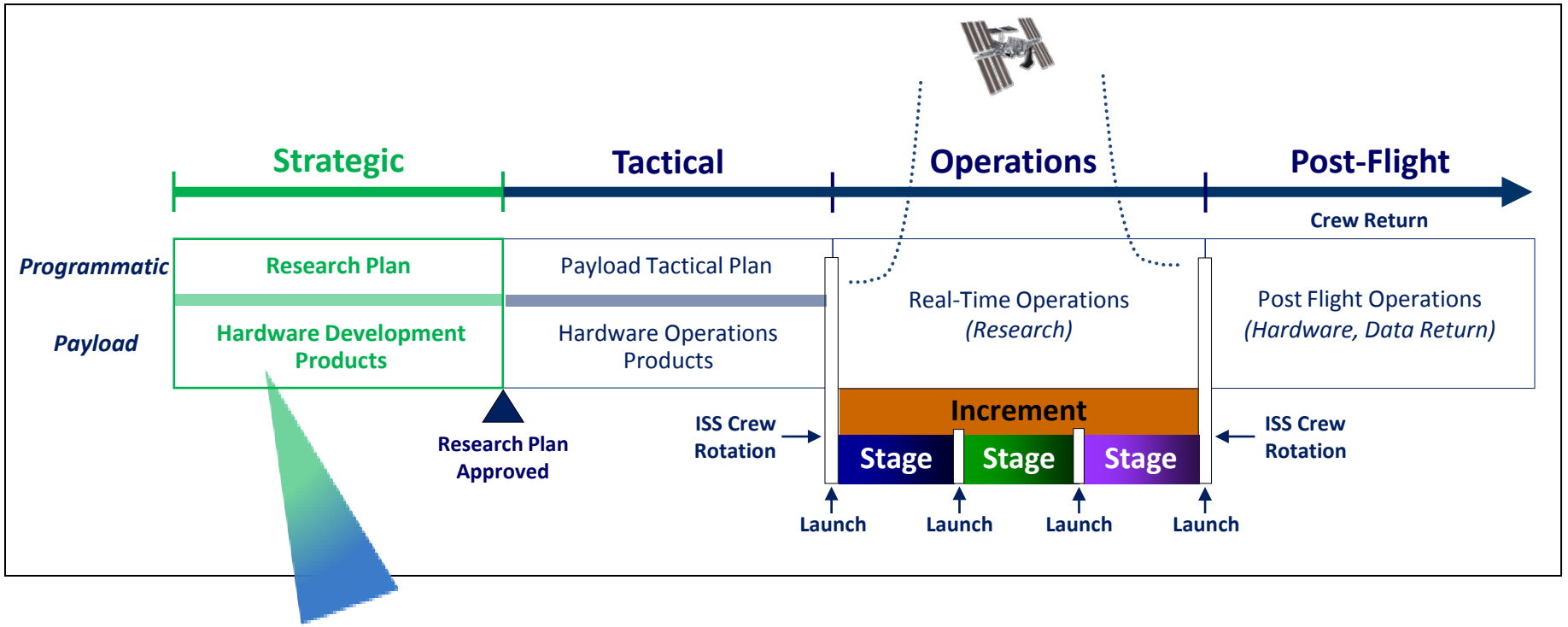
International investigators should seek sponsorship through their appropriate space agency.

For more information on research sponsorship and funding, see:
http://www.nasa.gov/mission_pages/station/research/funding_information.html

PHASE 1: SPONSORSHIP
Points of Contact

Sponsoring Organization *(Funding Source)*	Selecting Organization	ISS Integration Contact
Space Life and Physical Sciences Research and Applications - Human Research Program *(NASA-funded)*	NASA: Mike Barratt	Cindy Haven, NASA JSC
Space Life and Physical Sciences Research and Applications - Physical Science *(NASA-funded)* - Life Science *(NASA-funded)*	NASA: Brad Carpenter *(acting)*	NASA Research Manager *(tbd)*, NASA/JSC
Astrophysics, Heliophysics, Space & Earth Sciences *(NASA-funded)*	NASA: Paul Hertz / Selecting Division Director	George Nelson, NASA/JSC
Technology Development *(NASA-funded)*	NASA Agency Sponsor Requesting the Technology	George Nelson, NASA/JSC
ISS National Laboratory *(Other government agency funded, non-profit / commercially funded)*	The Center for the Advancement of Space in Science (CASIS)	Marybeth Edeen, NASA/JSC
Education	CASIS or NASA Education	Marybeth Edeen, NASA/JSC

PHASE 2: STRATEGIC PLANNING



Payload Developer Inputs

WHO: Points of Contact

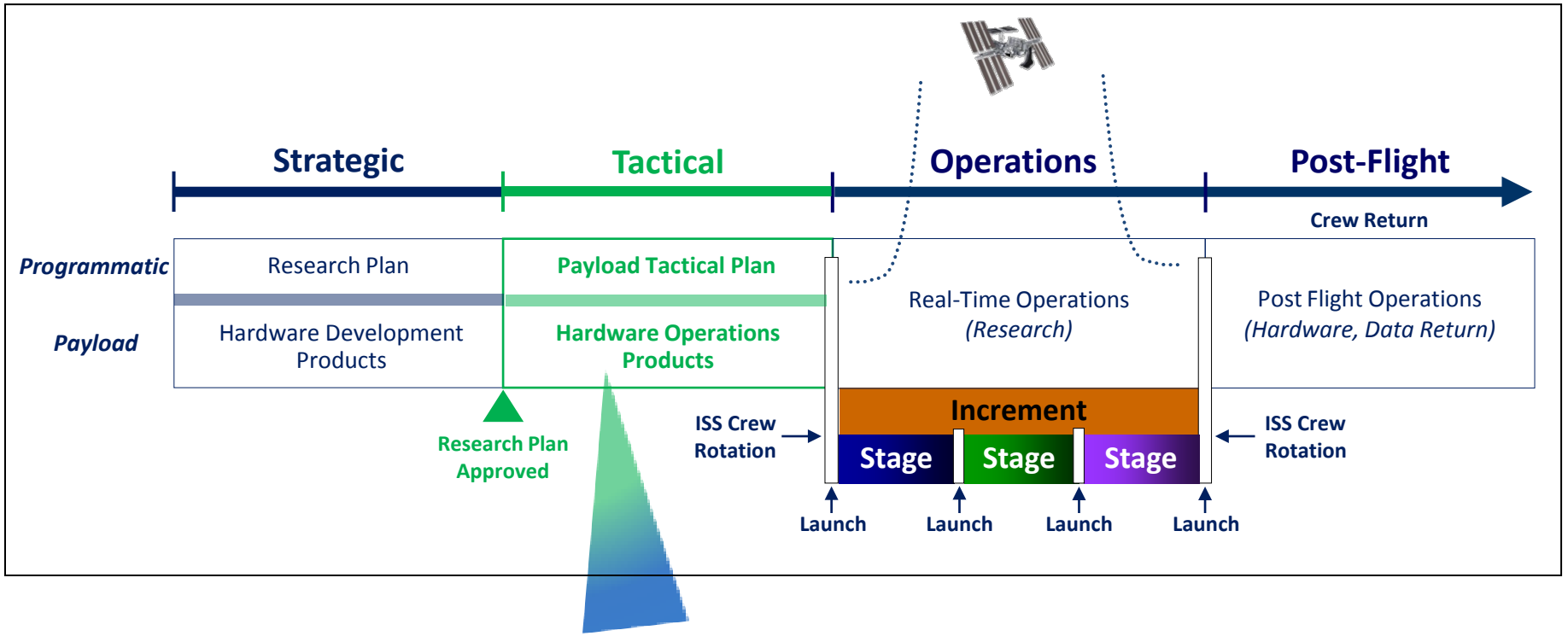
WHAT: Requirements Definition

WHEN: Operations Plan

WHERE: Launch and On-Orbit Requirements

WHY: Investigation Objectives

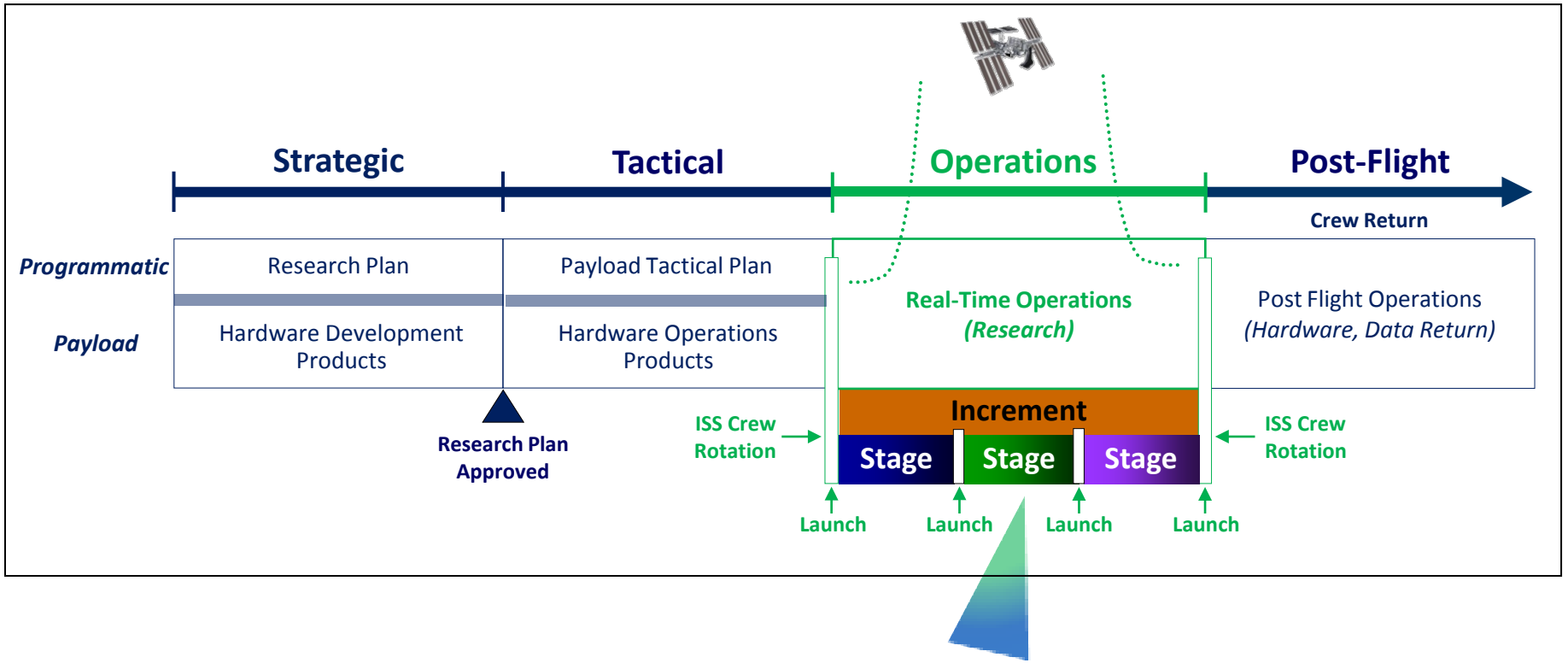
PHASE 3: TACTICAL PLANNING



Payload Developer Inputs

- Changes to Baselined Research Plan
- Training Products and Procedures
- Safety Review Packages
- Hardware Verification Data
- Software Verification Data

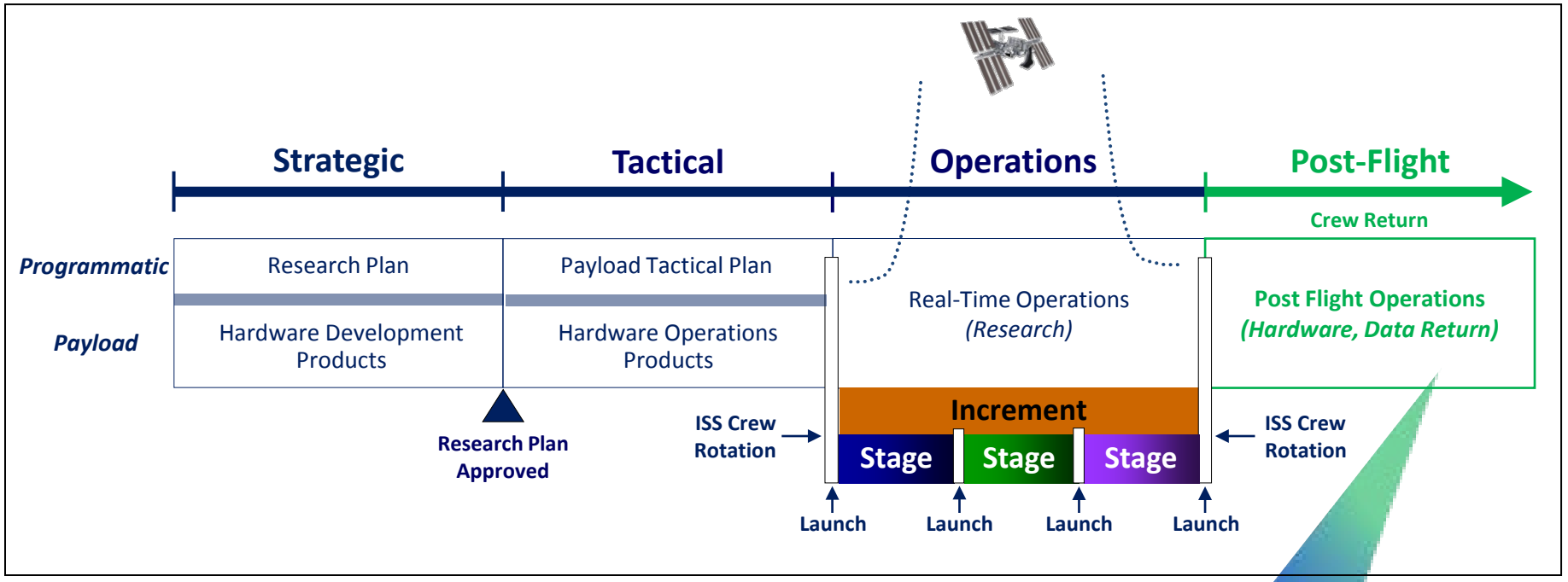
PHASE 4: OPERATIONS



Payload Developer Inputs

- Investigator Participation Real-Time (e.g., Console Operations)
- Crew Conferences
- Anomaly Resolution
- Data Collection and Sample Return

PHASE 5: POST-FLIGHT



Payload Developer Inputs

- Research Summary Updates
- 30-Day Reports
- Formal Publications

ACRONYMS

ASI	=	Agenzia Spaziale Italiana
CASIS	=	The Center for the Advancement of Space in Science
CSA	=	Canadian Space Agency
DoD	=	Department of Defense
ESA	=	European Space Agency
HEOMD	=	Human Exploration Operations and Mission Directorate
ISS	=	International Space Station
JAXA	=	Japan Aerospace Exploration Agency
JSC	=	Johnson Space Center
NIH	=	National Institutes of Health
OCT	=	Office of the Chief Technologist
SMD	=	Science Mission Directorate
tbd	=	To be determined
Tech. Dev.	=	Technology Development

FAQs

(proposed and to be answered eventually for website posting)

1. To whom do I submit an **idea** for an investigation to be flown on ISS?
2. Which organization(s) will **sponsor** my investigation to get integrated on ISS?
3. How are investigations **objectives** determined as to what is the most applicable research?
4. What is the **National Lab,** and should I fly my investigation as part of it?
5. What is **CASIS** and how is this organization relevant to my research proposed for ISS?
6. Who will **pay** for payload development associated with the investigation?
7. How can I **collaborate** with an International Partner(s)?
8. What is the step by step process in **manifesting** a new investigation?
9. **How long** can I expect the entire process to take from investigation sponsor approval to implementation on ISS?
10. If I have flown an investigation on ISS **previously,** will integration for a new investigation be quicker?
11. How is my investigation to be **prioritized** for flight and who conducts this prioritization?
12. What are the **criteria** used to prioritize an investigation for flight on ISS?
13. How is an investigation **selected** for flight?
14. If the Space **Shuttle** is no longer flying, how will my investigation get to ISS?
15. Who funds **launch services** for my payload?
16. Do I have an **upmass** restriction for my payload?
17. Which, if any, of the new **commercial** space firms will be able to launch my investigation's payload to ISS?
18. **When** can I expect the new private space firms to begin offering commercial launches of payloads to ISS?
19. How is **crewtime** allocated to a particular investigation?
20. Will **someone** be assigned to help oversee the development and integration of my investigation's associated payload?
21. Will I be able to **communicate** with the crewmember who performs my investigation aboard ISS?
22. Is there a timeline for ISS investigation/payload **integration**?
23. What is meant by the research **strategic planning** process?
24. What is meant by the research **tactical planning** process?
25. What is involved in the research **mission integration** process?
26. Once my investigation is aboard ISS, how will I receive my **data back** down from ISS?
27. How are **data shared,** when can **results be published,** what **publications** are interested in ISS data findings, etc.?
28. Are there opportunities for **education activities** to be manifested for flight and operation aboard ISS?